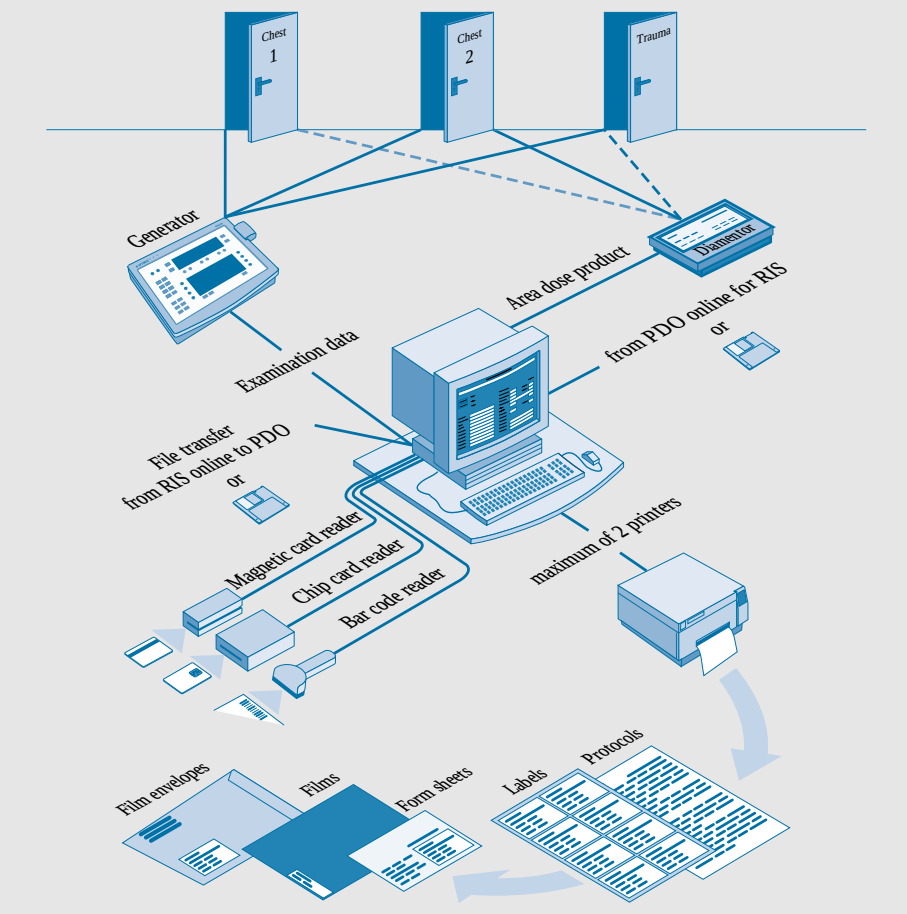
Radiography



OPERATOR´S MANUAL

OPTIMUS-PDO V. 2.1

Patient Data Organizer

English

PHILIPS

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Safety

Please observe the safety instructions in the Operator´s Manual for the generator.

Conformity

This Medical Device meets the provisions of the Medical Device Directive 93/42 EEC (93)

If you have further questions regarding the applicable national or international standards, please address them to:

Philips Medical Systems
Development and Manufacturing Centre
Quality Assurance Department
Roentgenstrasse 24
D-22335 Hamburg
Fax: (+49) 40/50 78-21 47

Copyright

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This Operator's Manual is a translation from German. The original version has the same code number but the last digit is 3 (4512 109 ....**3**).

With the transfer of the data carrier into the possession of the user, the user acquires a non-exclusive, non-transferable right to use the software stored on the said data carrier.

Modifications to software, multiple use of software and the making of copies for purposes other than data backup must be approved by Philips in writing beforehand. Please mark any backup copy with a reference to the Philips copyright.

Description and installation

Scope of supply

With the PDO you receive
– this Operator's Manual
– a floppy disk
– a cable* for serial data transmission and
– an additional protective earth lead*.
* Both cables are 3 m long and must be connected up to the generator control desk and the PC.

How the program operates

The PDO receives **examination data**
– from the generator and/or
– from a DIAMENTOR

and **patient data**
– from the RIS (Radiology Information System)
– from a chip card
– via a bar code reader or
– as input via the keyboard.

It assigns the examination data to the corresponding patient data and makes them available for passing on to
– RIS and/or
– up to 2 printers.

A PDO can administer up to 3 examination rooms.

You can configure the program according to your requirements. For further information on this please refer to the Appendix.

How to install the program

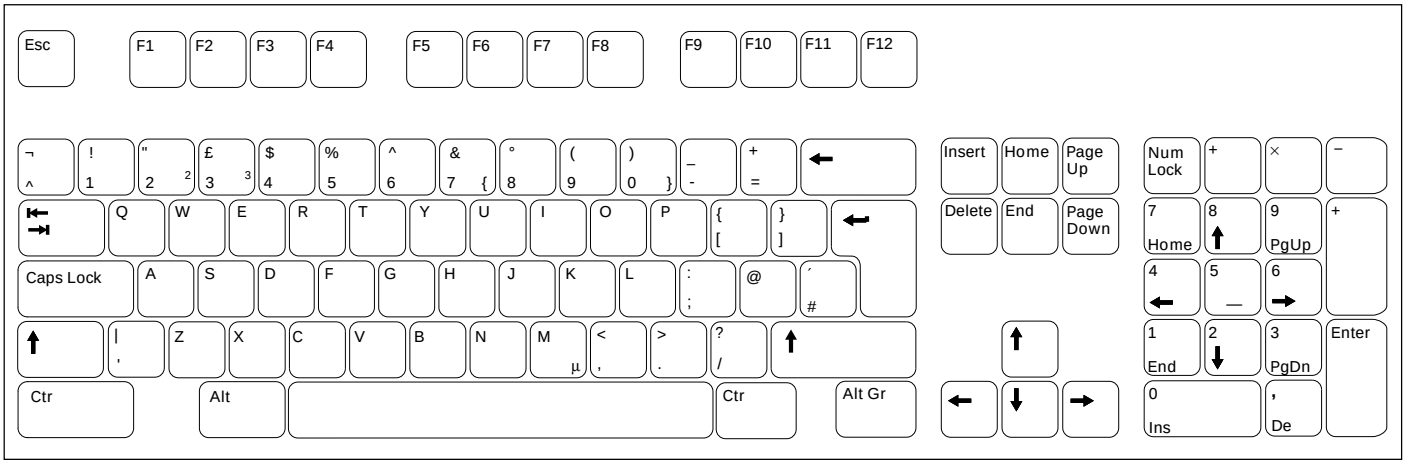
- Connect the unit up as described below.
- Make a backup copy of the floppy disk provided.
- Terminate all applications under Windows.
- Insert the floppy disk in the appropriate disk drive.
- From the Windows program manager or from the file manager select „File“.
- Select „Run“.
- Enter „a:\setup“ or
- replace „a:“ by the appropriate disk drive letter

or

- open the window for the floppy disk drive in the file manager.
- Double-click „setup.exe“.
- Follow the instructions on the screen.
- After installation you will have to adapt the program to your system and test it (see Appendix).

Legend

Keyboard *(example)*



The following keys are important for operating the program:

Activate next entry field

Hold down ↑ and press ⇤⇥. Activate previous entry field

Alt — Activate/deactivate pull-down menus

↵ corresponds to softkey OK

Esc — Abort selection or close window

8 ↑ / 4 ← / 6 → / 2 ↓
- Move cursor in the entry fields
- Switch between examination rooms in the „Room“ window
- Select exposure number in the „Exposure“ field
- Select an entry from a list
- Select within the pull-down menus

Space bar In the „OUTPUT“ area switch the check box for printer/file ON/OFF

The following program-specific commands are stored on the function keys:

F1 — Display function key assignment

F2 — Equivalent to the function EDIT

F3 — Equivalent to the function VIEW

F4 — Equivalent to the function NEW: Change patient and enter new patient data via the default input unit

F5 — Switch display to Room 1

F6 — Switch display to Room 2

F7 — Switch display to Room 3

F8 — Not assigned

F9 — Change patient and enter new patient via the input file

F10 — Change patient and transfer new patient data from a chip card

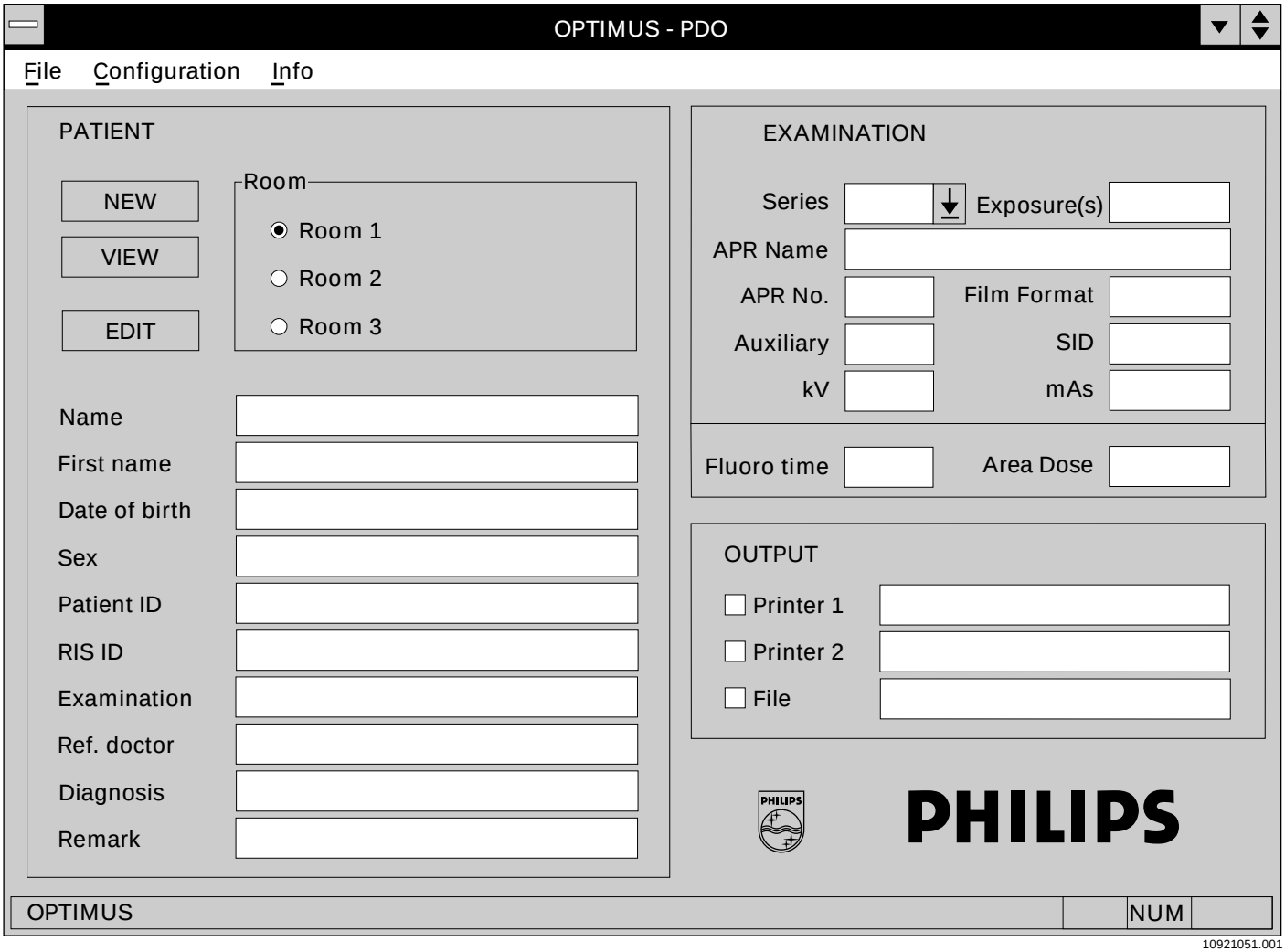
F11 — Change patient and enter new patient data via keyboard or read in from bar code reader

F12 — Simulate exposure in the „Test“ mode

Ctr + N — Activate ”series“

Legend

The data mask *(example)*



The mask is structured as follows:

- Top edge:
  This is where the pull-down menus appear.

- Bottom edge:
  This where the status line appears.

- „PATIENT“ panel:
  Here you will find the patient data and the examination room.

- „EXAMINATION“ panel:
  Here you will find the exposure data.

- „OUTPUT“ panel:
  Here you can select the output unit.
  („place a cross“ in the appropriate box)

All the screen windows have some identical panels.

On the screen you can perform the following by clicking with the mouse

– Open system menu

– Reduce window to symbol

– Enlarge symbol to full size

– Switch window over to previous size

– Scroll a list with

if it has more lines than can be displayed in the window or

if the lines are longer than the width of the window

and then dragging.

As an alternative to the mouse you can use the keyboard to open certain windows. For this you must press Alt and enter the letter underlined.

In the **pull-down menus** you will find headings under which there are other menus.

The **status line** shows messages from the generator and from the DIAMENTOR where applicable.

You can call up functions which are stored under **softkeys** (e.g. NEW , VIEW in the data mask) by clicking onto the softkey with the mouse.

What do the entry fields and softkeys mean?

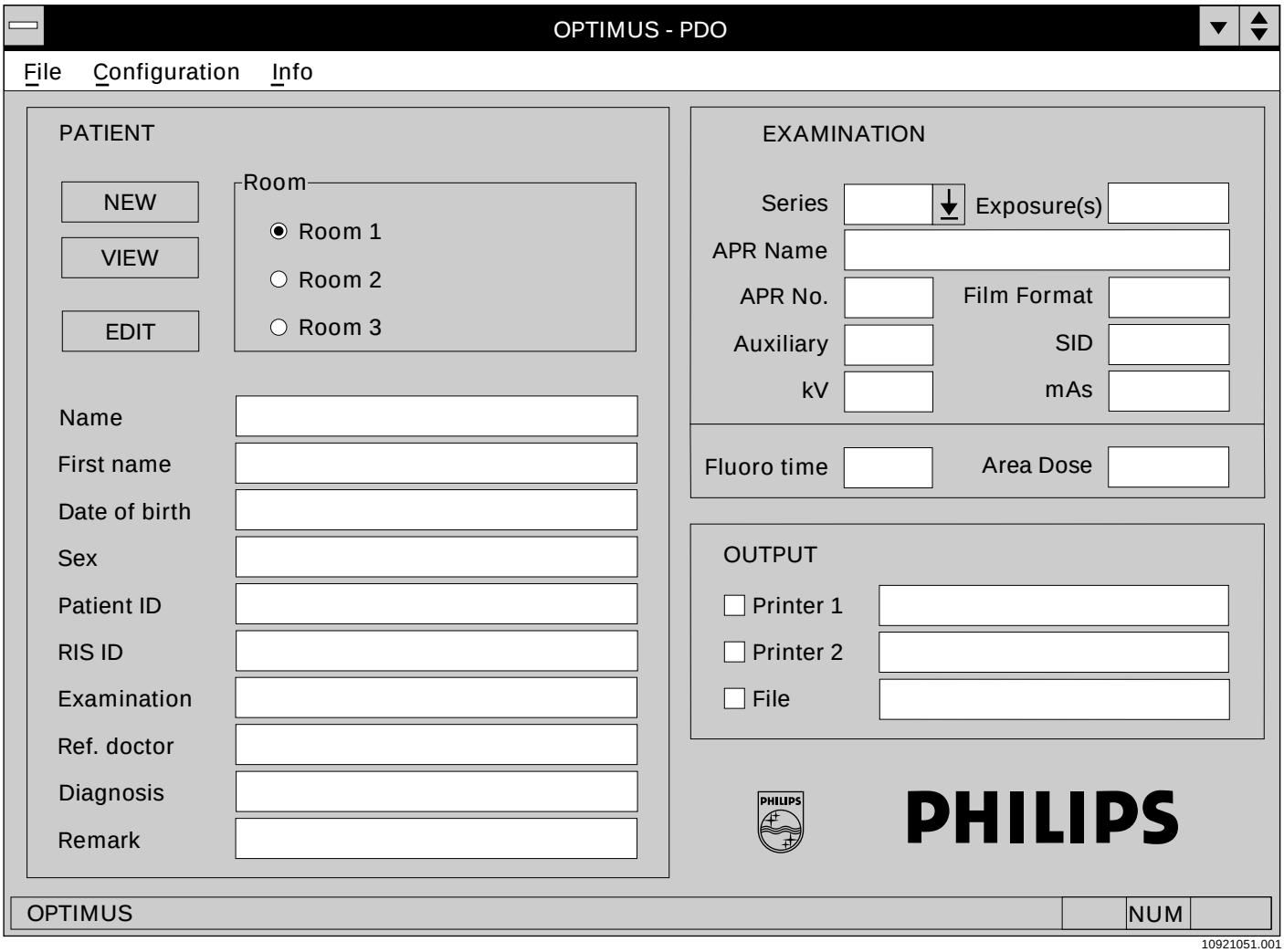
Pull-down menus

File	Here you will find the „File“ sub-menu.
Configuration	Here you will find the „Configuration“ sub-menu.
Info	In this sub-menu – you can find out what the function keys are for – you can obtain further information

„PATIENT“ panel

NEW	– Change patient and enter new patient data via the default input unit. – Reset generator, and DIAMENTOR where applicable (RESET). – Store and print patient data and exposure parameters. – Delete patient data and exposure parameters for the examination room selected.
VIEW	Without changing the patient, display the data of a patient. This softkey appears only if you have not programmed the keyboard as the default input unit.
EDIT	This softkey corresponds to F2 . After exposure the patient fields can be set free to correct data or to fill out missing patient data. In the “Configuration/main options” menu you can activate/deactivate this function. If deactivated, the softkey is not visible.

Legend



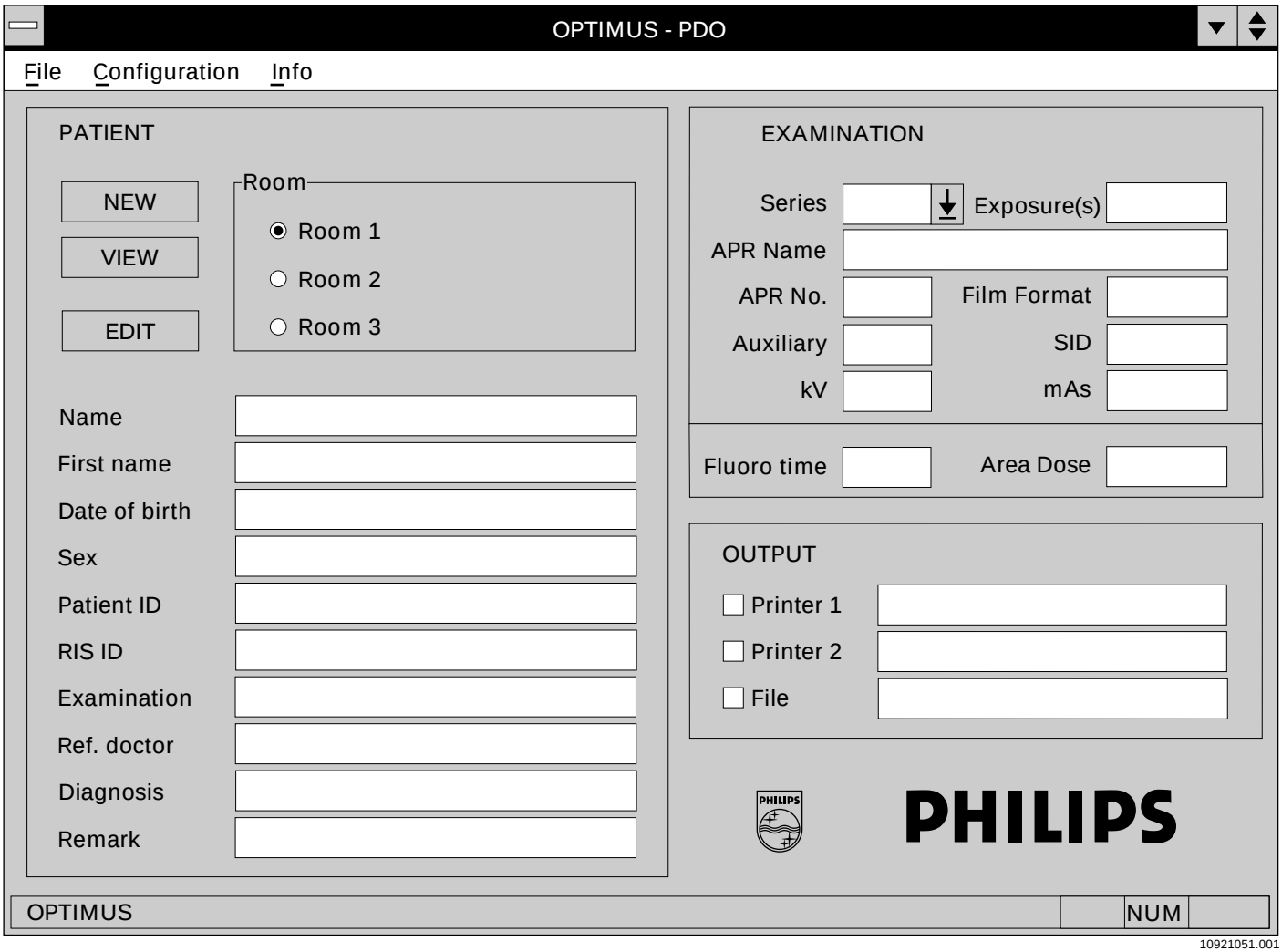
10921051.001

What do the entry fields and softkeys mean?

Philips suggests the following terms but you can change them according to your requirements.

◯ Room 1	Examination room 1
◯ Room 2	Examination room 2
◯ Room 3	Examination room 3
Name	Patient´s surname
First name	Patient´s first name
Date of birth	Patient´s date of birth
Sex	Patient´s sex; possible entries M, F
Patient ID	Patient-specific number
RIS ID	The patient number assigned by the RIS
Examination	Examination
Ref. doctor	Referring doctor, referring institution
Diagnosis	Diagnosis
Remark	Field for any remarks

Legend



10921051.001

What do the entry fields and softkeys mean?

„EXAMINATION“ and „OUTPUT“ panels

Philips suggests the following terms but you can change them according to your requirements.

Series	Number of examination series
⬇	Select number of examination series
Exposure(s)	Number of exposures in the series
APR name	Name of APR programme
APR no.	Number of APR programme
Film Format	Film size in cm x cm
Auxiliary	Auxiliary selected
SID	Source image distance in cm
kV	Exposure voltage
mAs	mAs product
Fluor. time	Fluoroscopy time
Area dose	Area dose in $cGycm^2$
☐ Printer 1	Output to printer 1
☐ Printer 2	Output to printer 2
☐ File	Save data to output file

Activating an output unit

- Place a cross with the mouse
  ☐ Printer 1 ☐ Printer 2 ☐ File

  or
- select a field with ⇤⇥ and place a cross with the **spacebar**.

Setting exposure parameters

- Set the exposure parameters at the generator control desk.
  For further information refer to the Operator's Manual for the generator.

Positioning the patient

- Position the patient according to the type of examination.

Selecting the examination room

– with F5 , F6 , F7 or

– select with the mouse
  ◯ Room 1 ◯ Room 2 ◯ Room 3

or
– select a room with ⇤⇥ and place a cross with ↑ ← ↓ → .

Entering the data of a new patient

You can enter the data of a new patient by
– transferring the data from **RIS**
– transferring the data from a **chipcard** or **magnetic card**
– reading them in via a **bar code reader** or
– entering them via **keyboard**.

If you wish to enter the data via the programmed default input unit: NEW or F4 .

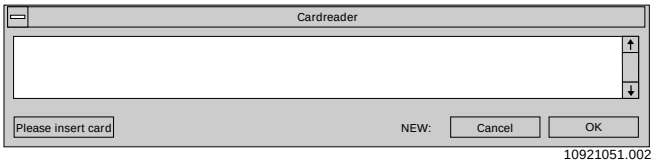
Entering data via the keyboard:

- F11 ; the cursor is in the first field
- Fill in the field; you can make corrections with ←
- To place the cursor in the
  – next field: ⇤⇥
  – previous field: hold down ↑ + press ⇤⇥
- Fill in the field.

Transfer data from a chip card:

- Insert the chip card in the reader
- Open the data mask with
  – F10 or – if the card reader has been configured as the default input unit - with
  – NEW

The following appears



10921051.002

The data are read in.

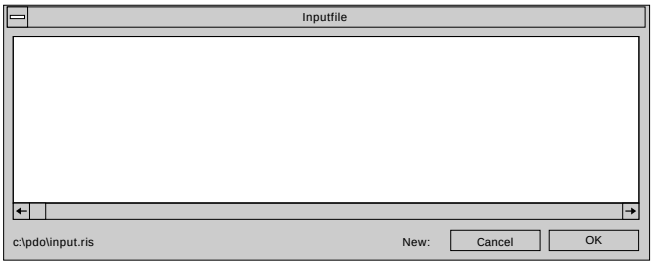
- OK or ↵

If you wish to abort transfer of the data:
- Cancel or Esc

If you wish to read the data in again:
- Read Card

Transferring data from the input file:

- F9 or NEW
  The following appears.



- To select data: ↑ ← ↓ → or click with the mouse. The data selected are highlighted.
- To acknowledge the entry: OK , ↵ or double-click this line.

If you wish to abort selection:
- Cancel or Esc .

Changing the data of a patient

Normally you can enter a patient's data **only before the first exposure** and edit them via the keyboard. For special cases (e.g. Casualties) you can change the patient data later:

- EDIT or F2
- F11 ; the cursor is in the first field
- Change data; you can make corrections with ←
- To place the cursor in the
  – next field: ⇥
  – previous field: hold down ⇧ and press ⇤⇥
- Change data.

Releasing an exposure

With the handswitch release the exposure. The exposure parameters appear on the monitor when the appropriate examination room has been selected.

Compatibility

The OPTIMUS-PDO has been tested with the following equipment:

OPTIMUS 50/65/80 as of version 2.1

DIAMENTOR M4

Philips chipcard reader
– PE 115

Magnetic card reader
– CHERRY E 80-1501 HAD, integrated into the keyboard
– any equivalent card reader

Bar code reader
Welch Allyn SCANTEAM 3000 CCD

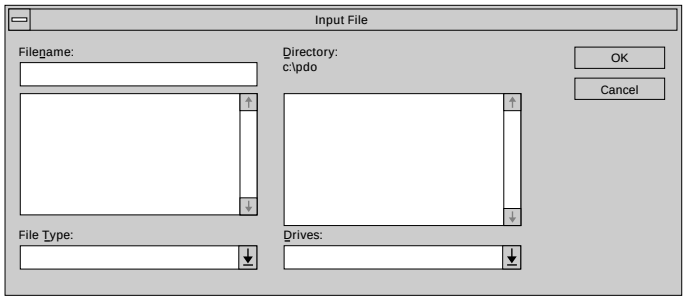
PC with the following requirements:
– from operating system Windows 3.1
– at least a 486 processor
– at least 8 Mbyte RAM
– VGA graphics card
– 3 Mbyte of free hard disk space are necessary for installation.

Appendix

If you wish to adapt the program to your system

This is possible with the aid of the following sub-menus which you will find under the „File“ menu:

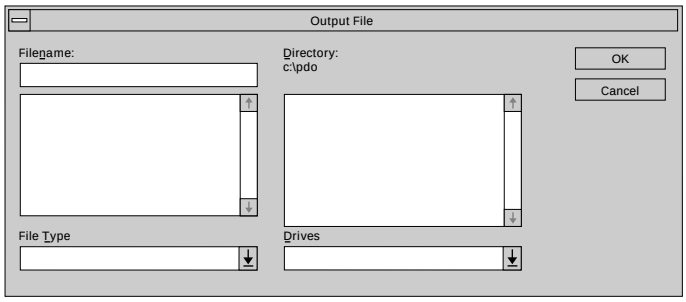
Input file
Select the disk drive, name and directory of the input file delivered by the RIS.



OK Accept filename

Cancel Abort

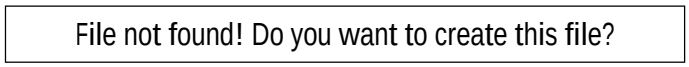
Output file
Select disk drive, name and directory of the output file.



OK Accept filename

Cancel Abort

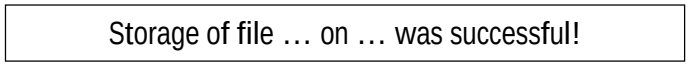
If no output file exists yet, the following appears



Yes Create file

No Abort

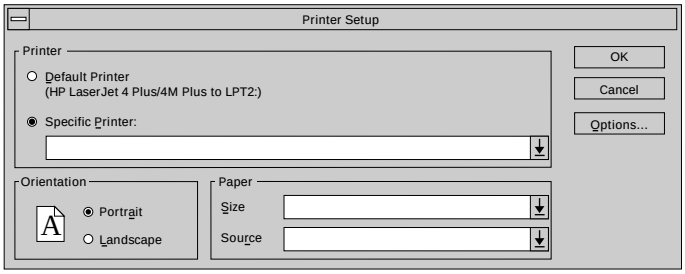
Emptying the output file
With this function you can delete the contents of the output file. The program saves the current output file and creates a new empty one as soon as new data have to be stored. The following appears



OK Delete message.

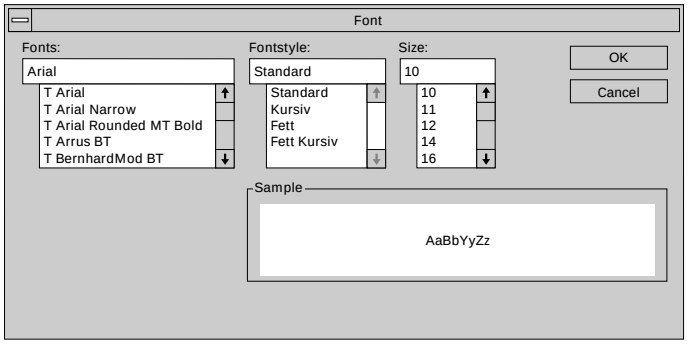
Printer 1/2

Please observe the following:
Select only the printer. From this interactive window the program only permanently remembers the printer. All the other settings are temporary. You must set them up permanently via the WINDOWS system control/printer. Depending on the speed of the printer and the quality of the printer driver the print operation may slow down the system considerably and in exceptional cases may disturb data transfer from the OPTIMUS or DIAMENTOR. For this reason configure „Printer priority“ in the Windows print manager via the menu „Options/Print in background“ to „Low“.



– Font

For the first (second) printer select the font, style and size of type.



OK Acknowledge selection

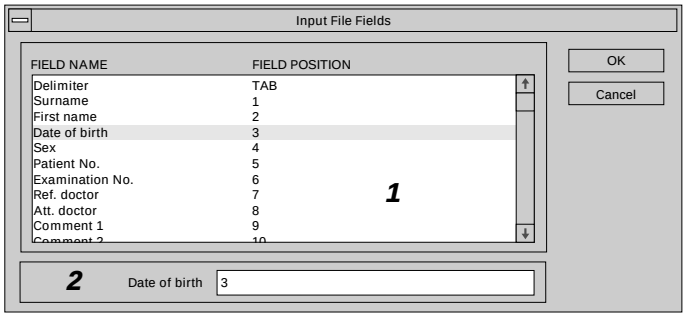
Cancel Do not acknowledge selection.

To terminate

Terminate program.

If you wish to configure the program according to your requirements

This is possible with the sub-menus which you will find in the „Configuration“ menu. With each sub-menu you open a window. Since all these windows have an identical layout, here is an explanation using the **example** opposite:



1 Selection window
On the left you will find the names of the fields which you can edit and on the right the respective entry.

2 Interactive line
This is where your selection appears. You can change the content of the input window.

OK Acknowledge changes

Cancel Abort

If you wish to change the entry:

- Select entry with ↑ ↓ or with the mouse. The entry selected is highlighted.
- Change entry
- If necessary, select the next entry and change it etc.
- To acknowledge change: OK
- To abort: Cancel or Esc .

You can switch between the selection window and the interactive line by pressing ⇆ .

Main options
You can define the basic settings of the program. If you have changed the basic settings you must then leave the program and start it again.

You can change the following parameters:

– Number of rooms used
  PDO can administer 3 examination rooms. Rooms not being used appear in grey and no entries can be made.

– Number of patient fields
  You can use up to 10 patient fields. Fields not being used appear in grey and no entries can be made.

– Edit patient fields
  Here you can specify whether EDIT should be activated and remain visible or not.

– OPTIMUS
  Select the interface (COM1...COM4) to which the generator control desk is connected. If no control desk is connected: "NONE".

– DIAMENTOR M4
  Select the interface (COM1...COM4) to which the DIAMENTOR is connected. If no DIAMENTOR is connected: "NONE".

– DIAMENTOR room
  Select the room in which the DIAMENTOR is connected.

– DIAMENTOR channel
  Select which channel of the DIAMENTOR is to be read out for the value of area dose: A, B or A+B. With A+B the values of both channels are added.

– Card reader
  Select the interface (COM1...COM4) to which the chipcard reader is connected. If none is connected or if it is looped into the keyboard interface: "NONE/ Keyboard".

– Standard input
  Here you find the default input unit which you call up with NEW or F4 .
  You have the choice between
  – "Input file" if you wish to accept the patient data from the input file
  – "Card reader" if you wish to input the patient data via chipcard or magnetic card reader
  – "Keyboard" if you wish to enter the patient data via the keyboard or via the bar code reader.

  With "Input file" and "Card reader" VIEW also appears in the data mask.

– Output file name
  This is normally defined in the "File/output file" menu. With the settings "AUTO" (monthly)" or "AUTO (daily)" the file name changes automatically. This makes it easier for you to perform statistical analysis.

– Program mode
  Normally this function is deactivated (NORMAL MODE). For information on how to test the program, refer to the section entitled "If you wish to test your system".

Field names
You can define the names of the input/output fields in the data mask and in the output. Please bear in mind that the length of names visible on the screen can be up to 14 characters.

Input file fields
If you enter the patient data via an input file, you can define how the various fields are to be extracted from the data record and transferred to the patient data fields. Any input or output fields which you do not use are automatically dimmed.

There are **two possibilities**:

- The fields of the data record are separated by control characters.
  – select a separator for your input data record, e.g. TAB.
  – for each subsequent patient data field enter a number to specify which field position in the data record is to appear in that particular patient data field.
  In the data mask the content of the third field of the input data record is assigned to the patient data field "Born".

Born	3

- The fields in the input file must have a fixed position
  – Select "NO SEPERATOR"
  – Determine from which position to which position individual characters of the input data record are to be transferred to the patient data field. For each subsequent patient data field enter two numbers seperated by a comma. In the following example the character positions 17 to 26 from the data record are assigned to the patient field "Born":

Born	17,26

Card reader fields
If you enter the patient data via a chip card reader (p. 14, „Default input"), you can define how the various fields should be extracted from the data record and transferred to the patient data fields. Proceed as described in „Input file fields".

Output file fields
You can define the structure of the data record of the output file. There are constant texts („Text constants") and all the patient and exposure data available.

There are **two possibilities**:

- The fields in the data record must be separated by control characters
  – Select a separator for your output data record, e.g. TAB.
  – For each subsequent output data field enter a number which determines which field position of the data record is to appear in this output data field. In the data mask the content of the 3rd field of the input data record is assigned to the patient data field „Born".

    In the following example the content of the „Born" field is written into the 5th field position of the output data record without any leading or trailing blanks:

Born	5

- The fields in the output file must have a fixed position
  – Select „NO SEPARATOR"
  – Determine from which position to which position individual characters of the data set are to be transferred to the output data field. For each subsequent patient data field enter two numbers separated by a comma.

    In the following example the character positions 17 to 26 from the data record are assigned to the patient field „Born":

Born	17,26

    Characters in the data set which are not described appear as blanks. The length of the data record is defined by the highest character position in the data record description.

Text constants
You can insert constant texts (up to 20 lines) in the data record. The maximum width of the text can be as long as the printed page.

– Select text line
– Enter text
– OK

Under „Output file fields" and „Edit layout" you can position your texts.

Print layout
There are 6 different layouts available under the "Edit layout" menu. If necessary you can change these layouts.

Editing the layout
You can define 6 layouts for output on the printer. After selecting 1...6 the window appears „Edit layout (1...6)". Here you define where on the printout the patient, examination data fields and constant texts are to appear.

– Layout name
  Give the current layout and name. This appears together with the online printer in the data mask in the area „OUTPUT".

– Horizontal and vertical layout units
  Here you can find the units of measurement for the layout:
  – Pica (1/10 inch) Width of a character in 12-point Pica type (1 character)
  – lines (1/6 inch) Height of a line in 12-point Pica type (1 line)
  – pt (1/72 inch) Entries in points
  – inch Entries in inches
  – cm Entries in centimetres.

You must enter **decimals** using a **decimal point**.

Philips recommends:
For printer output use a typewriter font such as Courier. All the characters have the same width so you can position the output fields in the units „Lines" and „Pica".

– Left margin
  Width of the left margin.

– Upper margin
  Width of the upper margin.

– Format width
  You need this figure if you wish to repeat a layout format on a page. Enter the width of a layout format in the units as described under „Horizontal units“. You determine how often you wish to repeat a format on a page via „Formats adjacent“ and „Formats vertical“.

– Format length
  You need this entry if you wish to repeat a layout format on a page. Enter the (vertical) length of a layout format in the units as described under „Vertical units“. You determine how often you wish to repeat a format on a page via „Formats adjacent“ and „Formats vertical“.

– Horizontal formats
  You need this entry if you wish to repeat a layout format on a page. Enter how many times the adjacent layout formats are to appear on the printed page.

– Format vertical
  You need this entry if you wish to repeat a layout format on a page. Enter how many times the vertical layout formats are to appear on the printed page.

– Number of copies
  You need this entry if you wish to have a number of copies of an exposure. Enter the appropriate figure.

Layout control commands
After the format entries for the layout the output file fields (plain text and all patient and examination data fields) appear along with positioning parameters and other control commands. You can assign the following layout control commands to these output file fields:

xy This position describes the top left-hand corner of the output field in the layout.

  Example: 12 27
  The top left-hand corner of the output file field is 12 units offset to the right and 27 units down in relation to the top left-hand corner of the layout (defined under „Top edge“ and „Left margin“).

V With the following positioning commands the content (value) of a field is output (default setting).

N With the following positioning commands the name of a field is output.

\+ The counting index for the exposures of the examination is raised by 1. Also the „V“ command is executed.

Cn Count: The following commands are executed n times and at the same time the count index for the exposures of the examination is raised by 1. If there is no other entry (increment), there is a line feed after each run (C40 is used, e.g. for list output per patient).

Ixy Increment: After a run through the count the format increment is specified in horizontal (x) and vertical (x) units. The default setting is I01 (1 line feed).

For each output file field you can enter several layout control commands, which must be separated by commas.

Examples

Entry:
Area dose 10 17, 30 17, 50 17

The content of the output file field is printed three times, e.g. on three identical labels next to one another.

Display:
1,23cGycm^2 1,23cGycm^2 1,23cGycm^2

Entry:
Area dose N, 30 17, V, 50 17

At position 30 17 the name of the field appears („Area dose“), at position 50 17 the content.

Display:
Area dose 1,23cGycm^2

Entry:
Area dose N, 10 17, V, 25 17, +, 40 17, +, 55 17

- At position 10 17 the name of the field appears („Area dose“),
- At position 25 17 the value for the 1st exposure appears,
- At position 40 17 the value for the 2nd exposure appears,
- At position 50 17 the value for the 3rd exposure appears.

Display:
Area dose 1,23cGycm^2 2,68cGycm^2 1,77cGycm^2

Printer 1(2) options
Here you assign a layout to the printer and define when it should print.

- Printer 1(2) uses layout #
  Enter the number of the layout which the printer should print.

- Printer output 1(2) for
  „Exposure“: The data are printed out after each exposure.
  „Patient“: The data are printed out after the patient change.

Output file options
If you have selected an output file under „Output file“ you can define the time of output here:

„Exposure“: Output after each exposure
„Patient“ Output after patient change.

Appendix

If you wish to test your system

Before the test ensure that when starting the program, all the equipment is connected and switched on.

Testing the program

After customisation you can also test the program without any real data from the generator, e.g.
– Layout
– Output times
– Assignment of the fields of the input file and the chip card reader
– Assignment of the fields of the output file.

For the test the program always uses the file name „pdo_test.txt“ for the output file in order to avoid confusion with real examination data.

Proceed as follows:
- Main options
- Program mode
- TEST MODE
- Leave program
- Start program; the following appears

  Do you want to start the program in TESTMODE ?

- Yes | No Select Yes
  In the data mask “Examination” now appears as EXAMINATION .
  If the file “optimus.mes” is in the PDO directory, you can press EXAMINATION or F12 to artificially create generator data in order to test the program.

After the test:
- Main options
- Program mode
- NORMALMODE
- Leave the program and restart it.

Testing the chip card reader

Check the read process in the TEST MODE.

Testing the bar code reader

During installation the unit is configured and coded according to the manufacturer´s specifications. Check the read process in the TEST MODE.

Testing the printer

Check printer output in the TEST MODE.

Testing the link between OPTIMUS and DIAMENTOR

- NORMAL MODE
- NEW
  The status line shows

  OPTIMUS: … Reset OK

  DIAMENTOR: … Reset OK

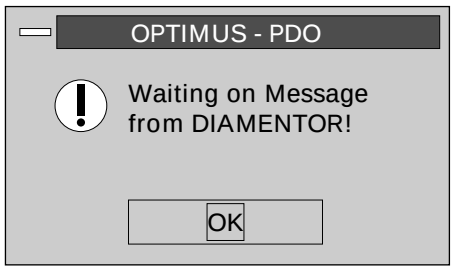
  If the link to OPTIMUS is defective, no message will appear.
- Remedy the defect and conduct a test again.

  If the link to DIAMENTOR is defective, the status line will show

  OPTIMUS: … Reset OK

- NEW

The following appears



- Remedy the defect and repeat the test.

How to install the unit

Connections

Before you put the PDO into operation, you must connect it up. Proceed as follows:
- Switch generator off
- Switch PC off
- Plug the serial interface cable* with the 9-pin connector "C 300 X2" into the generator control desk at the PC and screw in place.
- Plug the green-yellow protective earth lead** into the generator control desk and the PC.
- Connect all the other interfaces on the PC according to the system configuration and as required.

* You can extend the special serial connecting cable with a standard cable (connect all 9 pins 1:1, screened). The protective lead must be replaced by a longer equivalent lead.

** On the PC a suitable screw terminal must be used on the metal housing (preferably near the mains connection), whereby any enamel must be removed first.

Serial interfaces

The generator, DIAMENTOR and card reader are connected up to serial interfaces. Configure them via the „Windows system control/ports". Select „HARD-WARE" for the protocol. The transfer parameters (baud rate etc.) are set by the PDO. Ensure that the settings for IRQ and base address are correct.

If you wish to install your PDO yourself, there are two sample configurations below.

Sample configuration (default units)

Serial interfaces:
COM1, IRQ4: Mouse
COM2, IRQ3: OPTIMUS generator

Printer interface:
LPT1, IRQ7: Label or list printer

Sample configuration for connecting all units

To save system resources, you can configure printer interfaces in Windows without an interrupt (IRQ). If this is not possible you link the additional interfaces to free interrupts. For more details refer to the documentation on your interface card.

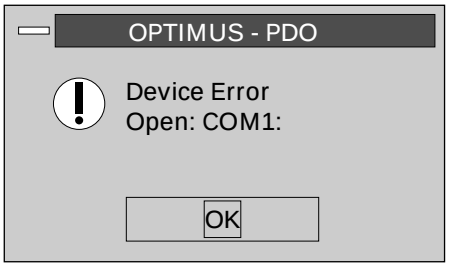
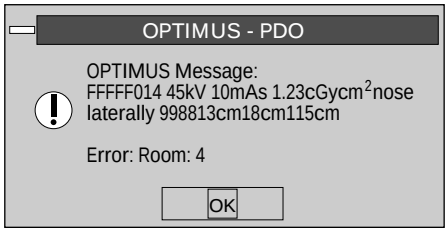
Serial interfaces:
COM1, IRQ4: Mouse
COM2, IRQ3: OPTIMUS generator
COM3, IRQ5: DIAMENTOR M4
COM4, IRQ7: Card reader

Printer interfaces:
LPT1, without IRQ: Label printer
LPT2, without IRQ: List printer

Equipment which can be looped into the keyboard interface (e.g. bar code reader, magnetic card reader), you require no additional port. The data are accepted by the program as an entry via the keyboard.

Appendix

And if something doesn´t work …

… an error message appears on the screen. It might look like this (examples):	**Meanings and causes**	**What you can do**
After program start		
	It was not possible to open the serial interface „COM1“. Assignment of the serial interface in the menu „Configuration/options“ is defective.	Correct the settings and start the program again.
While the program is running		
	The program has received a defective message from the generator or cannot assign the message. The error message comprises three parts: 1. The source of the defective message, in this case OPTIMUS message. 2. The content of the message. 3. The type of error, in this case a wrong room number. The program checks the message received from OPTIMUS and DIAMENTOR for – identification (transmission error) – sequence of arrival (sequence error) – check sum (check sum error) – room number (room error). Several causes are possible: – The units are not switched on. – The cable connections are faulty. – The serial interface is not configured correctly. – The computer is overloaded.	• Press OK Ensure that the PDO does not receive defective equipment data. • Leave the program • Test system.

For quick reference ...

Bar code reader 4f, 12, 22
Basic settings 18

Card reader field 19
Check boxes 5f
Chip card 4f, 12
Chip card reader 14, 18f, 22
Configuration 7, 17ff
Control characters 18f
Cursor 5, 12

Data mask 6, 19
Default input 18
Default input unit 5, 7, 12, 18
DIAMENTOR 4, 7, 14, 18, 22
DIAMENTOR channel 18
DIAMENTOR room 18

Edit layout 19
Error message 24
Examination data 4
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Exposure data 6
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Field name 18
File 7, 15
File manager 4
Font 16
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Format width 20
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Input 5
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Input file 5, 12, 15, 18
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Layout control commands 20
Layout name 19
Layout units 19
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Main options 18
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Normal mode 18

Output file 15, 21
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Patient change 21
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Patient field 18
Positioning command 20
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Program mode 18
Pull-down menus 5ff

RIS 4, 12, 15

Selection window 17
Separator 18f
Softkey 7ff
Space bar 5, 12
Status line 6f

Test 24
Test mode 12
Text 5
Text constant 19
Top margin 20

Window 7, 17

Abbreviations

APR	Automatic Exposure Control (Anatomically Programmed Radiography)
SID	Source-Image Distance
RIS	Radiology Information System

The stumbling block

Dear Customers,

The next Operator’s Manual will be „even“ better

if you let us know what you stumbled over in this Operator’s Manual.
Please copy the next page, fill it in and return it to us.

Thanks a lot for your support.

Yours sincerely

The Technical Editorial Staff of
Philips Medizin Systeme

Title of the Operator's Manual:

Patient Data Organizer, 4512 109 21051/742H - 1997-11

Are the descriptions comprehensible?*

☐ yes ☐ no ☞ Where did problems arise? ……..……..……

……..……

Are the illustrations comprehensible?*

☐ yes ☐ no ☞ What do you not like?……..……..……

What is your assessment of the description of operation?*

☐ OK ☐ too scanty ☐ too detailed

Were you able to easily follow all the operation steps at the unit?*

☐ yes ☐ no ☞ Where did you have difficulty? ……..……..……

……..……

Is there any information missing?

☐ no ☐ yes ☞ What is missing?……..……..…

Did you look for something and not find it immediately?*

☐ no ☐ yes ☞ What was it?…… ……..……

What would you change?*……..……

……..……

… and for statistical purposes:

The unit/system is located ☐ in a hospital ☐ at a surgery

Have you received instruction from Philips experts?

☐ yes ☐ no

* Please copy the „stumbling blocks", if possible, and show us what you mean.

Reply

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